

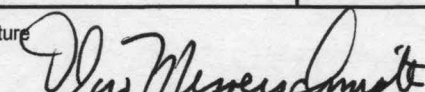


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

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DATA MATRIX

Date 4/26/2012			EPA Reg No./File Symbol 87862 -1		Page 1 of 5
Applicant's/Registrant's Name & Address MPT Mustard Products and Technologies Ltd., 101-111 Research Drive, Saskatoon, Saskatchewan, S7N 3R2, Canada			Product MustGro Invest		
Ingredient Oriental Mustard Seed (Brassica juncea) 98% (allyl isothiocyanate: 1.0%)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Product Identity and Composition					
880.1100	Product Identity and Composition	45883601	MPT Mustard Products & Technologies	OWN	
880.1200	Description of starting materials, production and formulation	45883601	MPT Mustard Products & Technologies	OWN	
880.1400	Discussion of formation of impurities	45883601	MPT Mustard Products & Technologies	OWN	
Analysis and Certified Limits					
830.1700	Preliminary analysis	45883601	MPT Mustard Products & Technologies	OWN	
830.1750	Certified Limits	45883601	MPT Mustard Products & Technologies	OWN	
830.1800	Enforcement analytical method	45883601	MPT Mustard Products & Technologies	OWN	
Physical and Chemical Characteristics					
830.6302	Color	45883601	MPT Mustard Products & Technologies	OWN	
830-6303	Physical state	45883601	MPT Mustard Products & Technologies	OWN	
830.6304	Odor	45883601	MPT Mustard Products & Technologies	OWN	
830.6313	Stability to normal and elevated temps, metals, metal ions	45883601	MPT Mustard Products & Technologies	OWN	
830.6315	Flammability		MPT Mustard Products & Technologies	OWN	2
830.6317	Storage Stability	47538501	MPT Mustard Products & Technologies	OWN	
Signature 			Name and Title Olav Messerschmidt, Registration Agent		Date 04/26/2012

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460
OFFICE OF RESEARCH AND DEVELOPMENT
EPA-600/3-80-010

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Parameter	Method	Frequency	Location	Depth	Time	Remarks
1. Temperature	1.1	1.1	1.1	1.1	1.1	1.1
2. Salinity	2.1	2.1	2.1	2.1	2.1	2.1
3. Dissolved Oxygen	3.1	3.1	3.1	3.1	3.1	3.1
4. pH	4.1	4.1	4.1	4.1	4.1	4.1
5. Turbidity	5.1	5.1	5.1	5.1	5.1	5.1
6. Total Suspended Solids	6.1	6.1	6.1	6.1	6.1	6.1
7. Total Dissolved Solids	7.1	7.1	7.1	7.1	7.1	7.1
8. Total Hardness	8.1	8.1	8.1	8.1	8.1	8.1
9. Total Alkalinity	9.1	9.1	9.1	9.1	9.1	9.1
10. Total Chloride	10.1	10.1	10.1	10.1	10.1	10.1
11. Total Sulfate	11.1	11.1	11.1	11.1	11.1	11.1
12. Total Nitrate	12.1	12.1	12.1	12.1	12.1	12.1
13. Total Ammonia	13.1	13.1	13.1	13.1	13.1	13.1
14. Total Phosphate	14.1	14.1	14.1	14.1	14.1	14.1
15. Total Silicate	15.1	15.1	15.1	15.1	15.1	15.1
16. Total Iron	16.1	16.1	16.1	16.1	16.1	16.1
17. Total Copper	17.1	17.1	17.1	17.1	17.1	17.1
18. Total Lead	18.1	18.1	18.1	18.1	18.1	18.1
19. Total Cadmium	19.1	19.1	19.1	19.1	19.1	19.1
20. Total Zinc	20.1	20.1	20.1	20.1	20.1	20.1
21. Total Manganese	21.1	21.1	21.1	21.1	21.1	21.1
22. Total Nickel	22.1	22.1	22.1	22.1	22.1	22.1
23. Total Chromium	23.1	23.1	23.1	23.1	23.1	23.1
24. Total Barium	24.1	24.1	24.1	24.1	24.1	24.1
25. Total Strontium	25.1	25.1	25.1	25.1	25.1	25.1
26. Total Magnesium	26.1	26.1	26.1	26.1	26.1	26.1
27. Total Calcium	27.1	27.1	27.1	27.1	27.1	27.1
28. Total Sodium	28.1	28.1	28.1	28.1	28.1	28.1
29. Total Potassium	29.1	29.1	29.1	29.1	29.1	29.1
30. Total Boron	30.1	30.1	30.1	30.1	30.1	30.1
31. Total Fluoride	31.1	31.1	31.1	31.1	31.1	31.1
32. Total Iodine	32.1	32.1	32.1	32.1	32.1	32.1
33. Total Bromine	33.1	33.1	33.1	33.1	33.1	33.1
34. Total Chlorine	34.1	34.1	34.1	34.1	34.1	34.1
35. Total Sulfur	35.1	35.1	35.1	35.1	35.1	35.1
36. Total Carbon	36.1	36.1	36.1	36.1	36.1	36.1
37. Total Nitrogen	37.1	37.1	37.1	37.1	37.1	37.1
38. Total Phosphorus	38.1	38.1	38.1	38.1	38.1	38.1
39. Total Silicon	39.1	39.1	39.1	39.1	39.1	39.1
40. Total Iron	40.1	40.1	40.1	40.1	40.1	40.1
41. Total Copper	41.1	41.1	41.1	41.1	41.1	41.1
42. Total Lead	42.1	42.1	42.1	42.1	42.1	42.1
43. Total Cadmium	43.1	43.1	43.1	43.1	43.1	43.1
44. Total Zinc	44.1	44.1	44.1	44.1	44.1	44.1
45. Total Manganese	45.1	45.1	45.1	45.1	45.1	45.1
46. Total Nickel	46.1	46.1	46.1	46.1	46.1	46.1
47. Total Chromium	47.1	47.1	47.1	47.1	47.1	47.1
48. Total Barium	48.1	48.1	48.1	48.1	48.1	48.1
49. Total Strontium	49.1	49.1	49.1	49.1	49.1	49.1
50. Total Magnesium	50.1	50.1	50.1	50.1	50.1	50.1
51. Total Calcium	51.1	51.1	51.1	51.1	51.1	51.1
52. Total Sodium	52.1	52.1	52.1	52.1	52.1	52.1
53. Total Potassium	53.1	53.1	53.1	53.1	53.1	53.1
54. Total Boron	54.1	54.1	54.1	54.1	54.1	54.1
55. Total Fluoride	55.1	55.1	55.1	55.1	55.1	55.1
56. Total Iodine	56.1	56.1	56.1	56.1	56.1	56.1
57. Total Bromine	57.1	57.1	57.1	57.1	57.1	57.1
58. Total Chlorine	58.1	58.1	58.1	58.1	58.1	58.1
59. Total Sulfur	59.1	59.1	59.1	59.1	59.1	59.1
60. Total Carbon	60.1	60.1	60.1	60.1	60.1	60.1
61. Total Nitrogen	61.1	61.1	61.1	61.1	61.1	61.1
62. Total Phosphorus	62.1	62.1	62.1	62.1	62.1	62.1
63. Total Silicon	63.1	63.1	63.1	63.1	63.1	63.1
64. Total Iron	64.1	64.1	64.1	64.1	64.1	64.1
65. Total Copper	65.1	65.1	65.1	65.1	65.1	65.1
66. Total Lead	66.1	66.1	66.1	66.1	66.1	66.1
67. Total Cadmium	67.1	67.1	67.1	67.1	67.1	67.1
68. Total Zinc	68.1	68.1	68.1	68.1	68.1	68.1
69. Total Manganese	69.1	69.1	69.1	69.1	69.1	69.1
70. Total Nickel	70.1	70.1	70.1	70.1	70.1	70.1
71. Total Chromium	71.1	71.1	71.1	71.1	71.1	71.1
72. Total Barium	72.1	72.1	72.1	72.1	72.1	72.1
73. Total Strontium	73.1	73.1	73.1	73.1	73.1	73.1
74. Total Magnesium	74.1	74.1	74.1	74.1	74.1	74.1
75. Total Calcium	75.1	75.1	75.1	75.1	75.1	75.1
76. Total Sodium	76.1	76.1	76.1	76.1	76.1	76.1
77. Total Potassium	77.1	77.1	77.1	77.1	77.1	77.1
78. Total Boron	78.1	78.1	78.1	78.1	78.1	78.1
79. Total Fluoride	79.1	79.1	79.1	79.1	79.1	79.1
80. Total Iodine	80.1	80.1	80.1	80.1	80.1	80.1
81. Total Bromine	81.1	81.1	81.1	81.1	81.1	81.1
82. Total Chlorine	82.1	82.1	82.1	82.1	82.1	82.1
83. Total Sulfur	83.1	83.1	83.1	83.1	83.1	83.1
84. Total Carbon	84.1	84.1	84.1	84.1	84.1	84.1
85. Total Nitrogen	85.1	85.1	85.1	85.1	85.1	85.1
86. Total Phosphorus	86.1	86.1	86.1	86.1	86.1	86.1
87. Total Silicon	87.1	87.1	87.1	87.1	87.1	87.1
88. Total Iron	88.1	88.1	88.1	88.1	88.1	88.1
89. Total Copper	89.1	89.1	89.1	89.1	89.1	89.1
90. Total Lead	90.1	90.1	90.1	90.1	90.1	90.1
91. Total Cadmium	91.1	91.1	91.1	91.1	91.1	91.1
92. Total Zinc	92.1	92.1	92.1	92.1	92.1	92.1
93. Total Manganese	93.1	93.1	93.1	93.1	93.1	93.1
94. Total Nickel	94.1	94.1	94.1	94.1	94.1	94.1
95. Total Chromium	95.1	95.1	95.1	95.1	95.1	95.1
96. Total Barium	96.1	96.1	96.1	96.1	96.1	96.1
97. Total Strontium	97.1	97.1	97.1	97.1	97.1	97.1
98. Total Magnesium	98.1	98.1	98.1	98.1	98.1	98.1
99. Total Calcium	99.1	99.1	99.1	99.1	99.1	99.1
100. Total Sodium	100.1	100.1	100.1	100.1	100.1	100.1

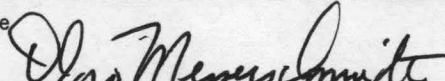


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Form Approved OMB No. 2070-0060

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DATA MATRIX

Date 4/26/2012			EPA Reg No./File Symbol 87862 - 1		Page 2 of 5
Applicant's/Registrant's Name & Address MPT Mustard Products and Technologies Ltd., 101-111 Research Drive, Saskatoon, Saskatchewan, S7N 3R2, Canada			Product MustGro Invest		
Ingredient Oriental Mustard Seed (Brassica juncea) 98% (allyl isothiocyanate: 1.0%)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6319	Miscibility	47538501	MPT Mustard Products & Technologies	OWN	5
830.6320	Corrosion characteristics	45883601	MPT Mustard Products & Technologies	OWN	
830.7000	pH				7
830.7050	UV/Visible light absorption				1
830.7100	Viscosity				7
830.7200	Melting point				1
830.7220	Boiling point				1
830.7300	Density, bulk density, or specific gravity	47538501	MPT Mustard Products & Technologies	OWN	
830.7520	Particle size, fiber length, and diameter distribution	47538501	MPT Mustard Products & Technologies	OWN	
830.7550	Octanol/Water partition coefficient - shake flask method				1
830.7560	Octanol/Water partition coefficient - generator column met				1
830.7570	Octanol/Water partition coefficient - estimation by liquid ch				1
830.7840	Water solubility				1
830.7950	Vapor pressure				1
Signature 			Name and Title Olav Messerschmidt, Registration Agent		Date 04/26/2012

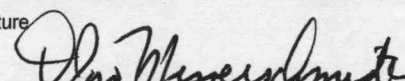


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DATA MATRIX

Date 4/26/2012			EPA Reg No./File Symbol 87862 -1		Page 3 of 5
Applicant's/Registrant's Name & Address MPT Mustard Products and Technologies Ltd., 101-111 Research Drive, Saskatoon, Saskatchewan, S7N 3R2, Canada			Product MustGro Invest		
Ingredient Oriental Mustard Seed (Brassica juncea) 98% (allyl isothiocyanate: 1.0%)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Tier I					
870.1100	Acute oral toxicity	45883603	MPT Mustard Products & Technologies	OWN	
870.1200	Acute dermal toxicity	45883604	MPT Mustard Products & Technologies	OWN	
870.1300	Acute inhalation	45883605	MPT Mustard Products & Technologies	OWN	
870.2400	Acute eye irritation	45883606	MPT Mustard Products & Technologies	OWN	
870.2500	Acute dermal irritation	45883607	MPT Mustard Products & Technologies	OWN	
870.2600	Skin sensitization	45883602	MPT Mustard Products & Technologies	OWN	
none	Hypersensitivity incidents				
870.3100	90-day Oral (one species)	46252501	MPT Mustard Products & Technologies	PL	
870.3250	90-day Dermal - rat	46120401	MPT Mustard Products & Technologies	PL	
870.3465	90-day Inhalation	46120401	MPT Mustard Products & Technologies	PL	
870.3700	Prenatal Development	46120401	MPT Mustard Products & Technologies	PL	
870.5100	Bacterial reverse mutation	46120401	MPT Mustard Products & Technologies	PL	
870.5300, 5375	In vitro mammalian cell assay	46120401	MPT Mustard Products & Technologies	PL	
Signature 			Name and Title Olav Messerschmidt, Registration Agent		Date 04/26/2012

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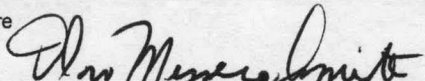


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Applicant's/Registrant's Name & Address MPT Mustard Products and Technologies Ltd., 101-111 Research Drive, Saskatoon, Saskatchewan, S7N 3R2, Canada			Product MustGro Invest		
Ingredient Oriental Mustard Seed (Brassica juncea) 98% (allyl isothiocyanate: 1.0%)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Residue Data					8
860.1100	Chemical Identity		MPT Mustard Products & Technologies	OWN	8
860.1200	Directions For Use		MPT Mustard Products & Technologies	OWN	8
Residue Data Requirements					8
860.1300, 860.1340, 860.1360	Nature of the Residues				8
860.1400, .1460, .1480, .1500, .1520,	Magnitude of the Residues				8
.1550, .1560	Magnitude of the Residues (cont.)				8
Non-target & Env. Expression Data					8
850.2100	Avian Acute Oral	46120401	MPT Mustard Products & Technologies	OWN	
850.2200	Avian Dietary	46120401	MPT Mustard Products & Technologies	OWN	
850.1075	Freshwater fish LC50	47271803	MPT Mustard Products & Technologies	OWN	
850.1010	Freshwater Invertebrate LC50	46263502	MPT Mustard Products & Technologies	OWN	
850.4100	Non-target Plant - Seedling Emergence	46120405	MPT Mustard Products & Technologies	OWN	
850.4150	Non-target Plant - Vegetative Vigor	47049301 & 02	MPT Mustard Products & Technologies	OWN	
880.4350	Non-target Insect Data		MPT Mustard Products & Technologies	OWN	9
Signature 			Name and Title Olav Messerschmidt, Registration Agent		Date 04/26/2012

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DATA MATRIX**Date:** 4/26/2012**EPA Reg. No./File Symbol:** 87862 - 1**Page** 5 of 5**Applicant's Name and Address:**

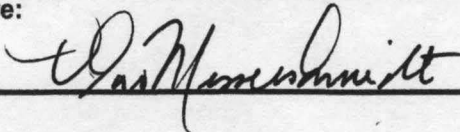
MPT Mustard Products and Technologies Ltd.
 101-111 Research Drive, Saskatoon, Saskatchewan, S7N 3R2, Canada

Product:

MustGro Invest

Ingredient: Oriental Mustard Seed (*Brassica juncea*) 98% (allyl isothiocyanate: 1.0%)**NOTES**

- | | |
|---|---------------------------------------------------------------------------------|
| 1 | N/A: these data are not applicable to this product |
| 2 | N/A 11/21/2011 product does not contain oxidizing or reducing agents |
| 3 | N/A: product does not contain combustible liquids. |
| 4 | N/A: not potentially explosive and has no explosive characteristics |
| 5 | N/A not an emulsifiable liquid and is not to be diluted with petroleum solvents |
| 6 | N/A is not a liquid and not intended for use around electrical equipment |
| 7 | N/A not a liquid |
| 8 | N/A: Not expected to affect performance, thus not required per PR Notice 92.5 |
| 9 | N/A: not soluble or dispersible in water |
| | |
| | |
| | |

Signature:

Name and Title:

Olav Messerschmidt
 Registration Agent

Date: 4/26/2012